

Missouri Gypsy Moth Survey Report 2013

Annual Summary
Of The Missouri Cooperative
Gypsy Moth Survey Program

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2013 Gypsy Moth Survey Results

A total of 5 moths were reported from our multi-agency, statewide survey. The moths were captured in the following counties Clay (1), Greene (1), Madison (1) and St. Louis (2).

The moths were forwarded to the USDA OTIS lab for molecular testing and were found not to be Asian gypsy moth.

Approximately 6,741 pheromone traps were placed around the state (56 of 114 counties) by all cooperators in the annual effort to detect the presence of this damaging insect pest. Primary trapping agencies were Missouri Department of Agriculture, Missouri Department of Conservation and USDA-APHIS-PPQ, with additional trapping conducted by U.S. Army and Missouri National Guard.

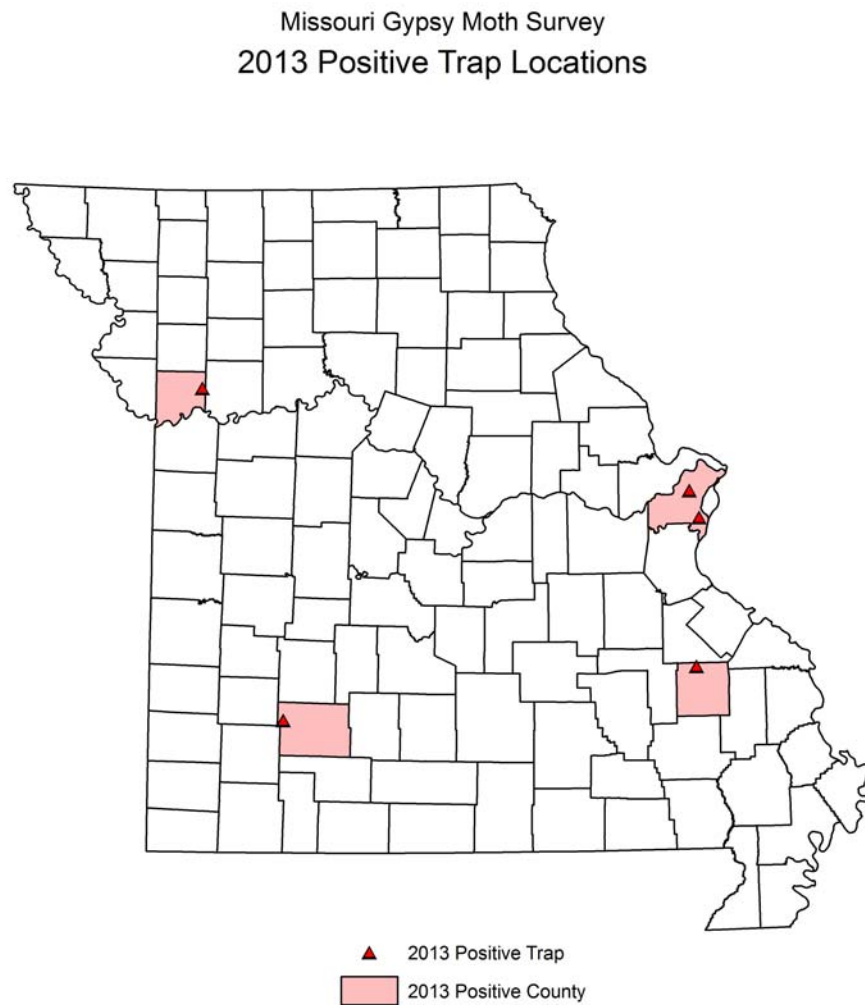


Figure 1. 2013 Missouri Gypsy Moth Positives

Table 1. Historic Gypsy Moth Trapping Data in Missouri

Year	# Traps used in survey	Area surveyed	# Multiple catches	Total number of moths taken
1967-1973	??	Limited statewide	0	0
1974	??	Limited statewide	0	1
1976-1979	??	Limited statewide	0	0
1980	??	Limited statewide	0	3
1981	3,500	1/3 of state	1	9
1982	4,200	1/3 of state	1	14
1983	5,700	1/3 of state	1	11
1984	6,000	1/3 of state	1	13
1985	5,152	½ of state	2	22
1986	6,900	½ of state	0	8
1987	7,320	½ of state	0	5
1988	7,600	½ of state	2	11
1989	7,515	86/114 counties	2	11
1990	7,432	61/114 counties	0	8
1991	6,819	65/114 counties	3	35
1992	8,721	67/114 counties	7	33
1993	9,032	48/114 counties	7	62
1994	13,000	97/114 counties	5	40
1995	12,500	85/114 counties	2	26
1996**	11,500	114/114 counties	0	6
1997	10,500	108/114 counties	2	13
1998	10,500	108/114 counties	2	17
1999	12,200	99/114 counties	1	13
2000	11,000	100/114 counties	2	12
2001	12,000	109/114 counties	1	6
2002	11,400	102/114 counties	0	4
2003	11,508	102/114 counties	0	11
2004	11,500	102/114 counties	2	18
2005	11,500	102/114 counties	0	10
2006	9,150	61/114 counties	4	17
2007	9906	80/114 counties	0	7
2008	11,794	96/114 counties	0	10
2009	9,731	67/114 counties	3	22
2010	9,276	71/114 counties	0	2
2011	6,024	60/114 counties	0	4
2012	6,807	58/114 counties	0	1
2013	6,741	56/114 counties	0	5
**All counties surveyed			Total moths taken in 46 years	490

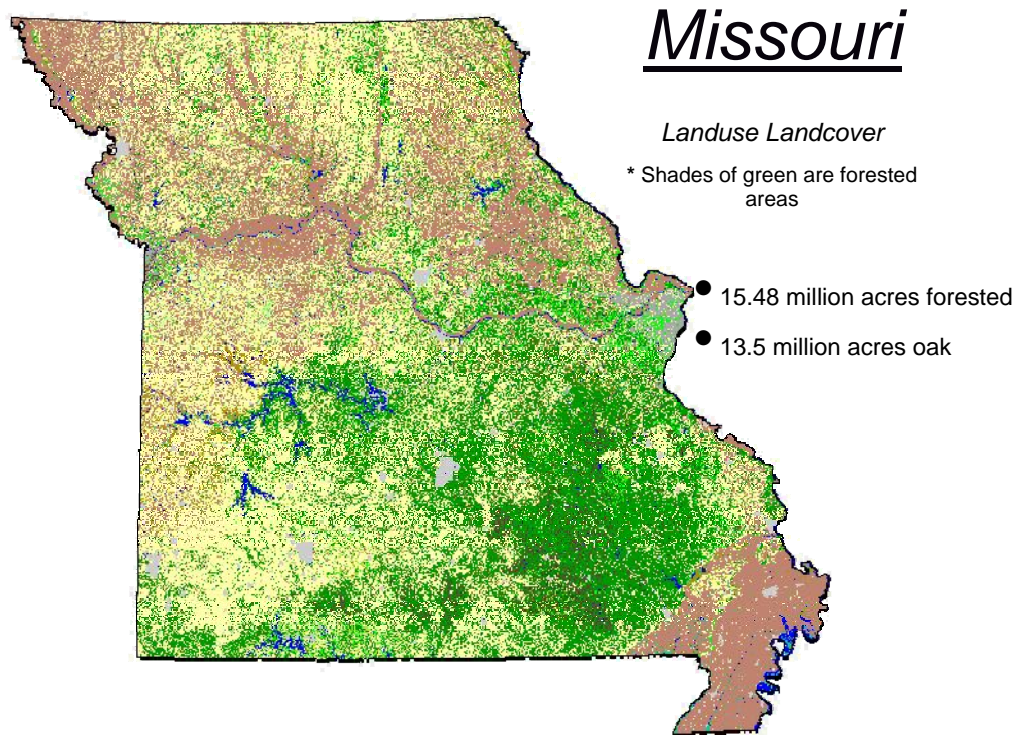


Figure 2. Missouri Forest Area

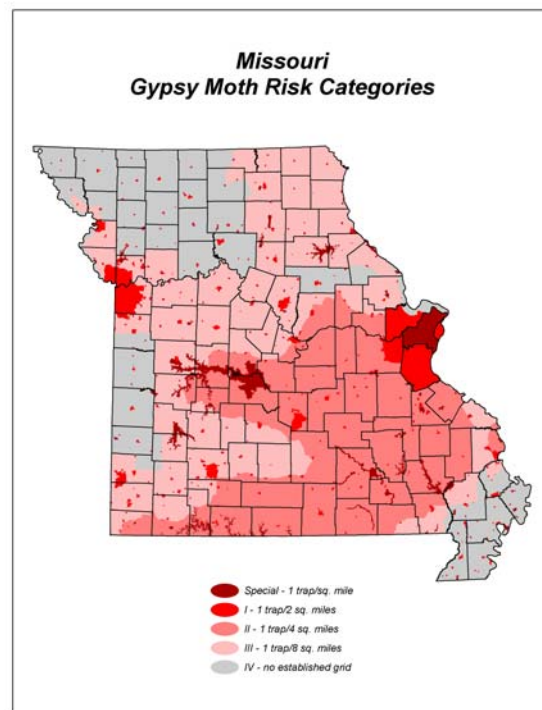


Figure 3. Gypsy Moth Risk Categories and Trap Densities

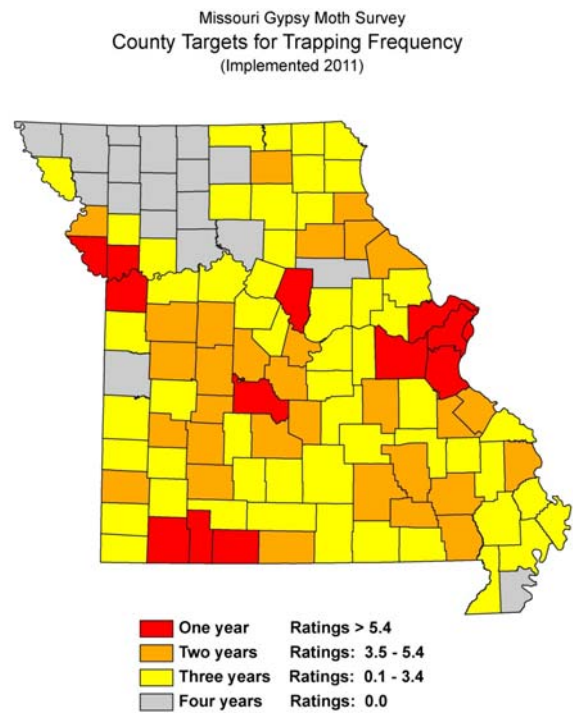


Figure 4. County Trapping Frequency

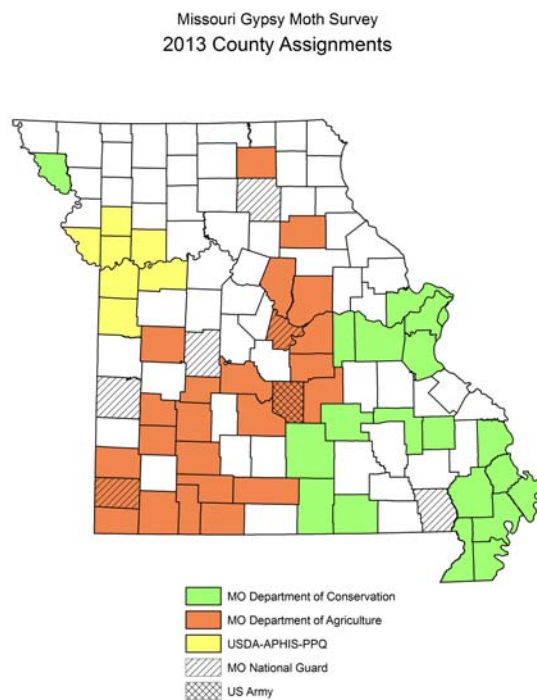


Figure 5. Missouri Gypsy Moth Survey
Agency Trapping Assignments for 2013

Missouri Gypsy Moth Survey
Positive Trap History
1980-2013

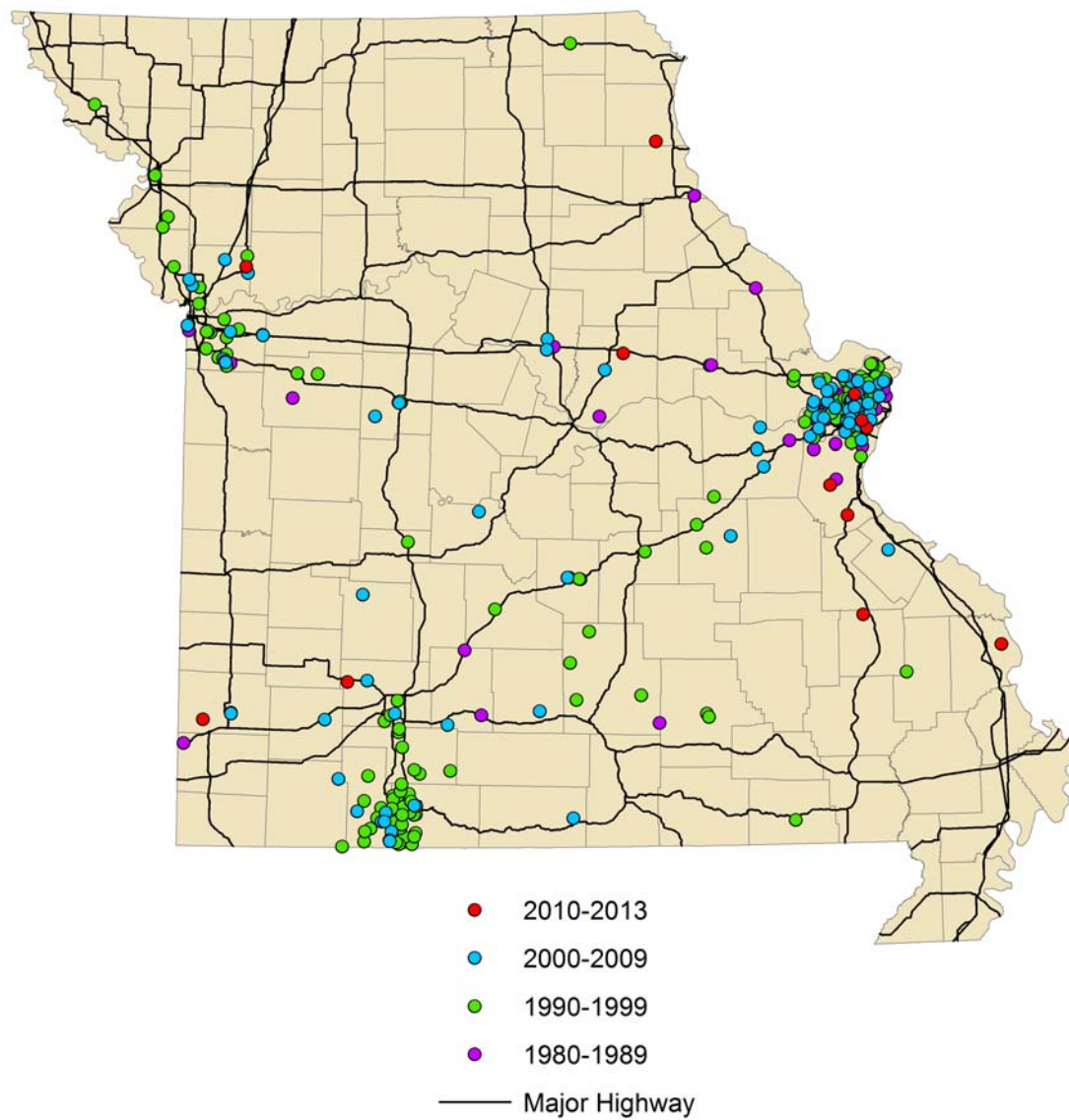


Fig. 6. Gypsy moth captures 1980-2013